

TruePosition

AnyPhone AnyWhere
WIRELESS LOCATION TECHNOLOGY

Mar-18-05 08:57:26 From:Goodrich,Markburn

T-10 P.002/035 F-002

SETTLEMENT AGREEMENT

This Settlement Agreement is made as of January 16, 2004, by and among TruePosition, Inc. ("TruePosition"), KSI, Inc. ("KSI"), Allen Telecom L.L.C. ("Allen"), and Andrew Corporation ("Andrew"). TruePosition and KSI are referred to herein collectively as "TruePosition" or "the plaintiff." Allen and Andrew are referred to herein collectively as "Andrew" or "the defendant."

WHEREAS the plaintiff filed a lawsuit entitled TruePosition, Inc. and KSI, Inc. v. Allen Telecom, Inc., Civil Action No. 01-0822 GMS, in the United States District Court for the District of Delaware ("the Action") against Allen Telecom, Inc., the predecessor to Allen Telecom, L.L.C., alleging infringement of U.S. Patents 4,728,959; 4,08,555; 6,19,013; 6,047,192; 6,184,829; 6,181,819; and 6,117,081;

WHEREAS the defendant filed counterclaims seeking a declaratory judgment that: TruePosition's patents are invalid, unenforceable, and/or not infringed; alleging infringement of Andrew's U.S. Patent 5,317,321; and asserting antitrust and state law tort claims;

WHEREAS Allen Telecom, Inc. subsequently merged with and into Alitem Telecom L.L.C., a wholly-owned subsidiary of Andrew Corporation;

WHEREAS the parties hereto desire to settle and resolve the Action;

WHEREAS the parties agreed to memorialize their settlement agreement in this format:
Settlement Agreement;

CONFIDENTIAL
TruePosition, Inc. v. Andrew Corp.
Case No. 05-00747-SLR

TPR002/035

EXHIBIT
P-2
1/16/04

PTX-15

February 2004
TruePosition v. Andrew
Settlement Agreement



AnyPhone AnyWhereTM
WIRELESS LOCATION TECHNOLOGY

TRUEPOSITION SETTLEMENT AGREEMENT (PAGE 6 OF 10)

TruePosition, Inc.

115-102

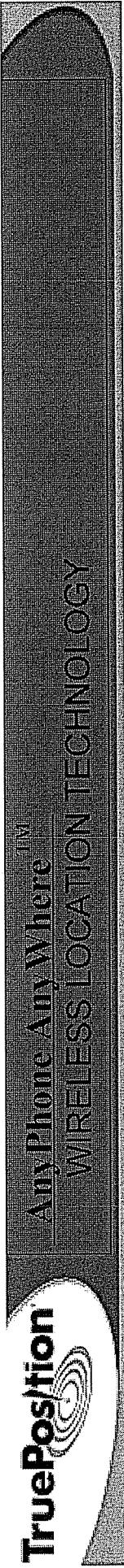
6) TruePosition hereby grants to Andrew a worldwide non-exclusive license to make, use, offer to sell, sell, and import geolocation equipment under the patents and patent applications listed in Exhibit B hereto, and under all geolocation patents which may issue at any time as a result of any patent application filed by TruePosition within one year of January 16, 2004, including all divisionals, reissues, continuations in part, continuations, and foreign counterparts of such patents. Andrew shall have no right to sublicense under this paragraph.

TruePosition equipment, whether patents, and is not authorizing Andrew to grant sublicenses that can be transferred by its customers to third parties. Andrew shall not be provided for a distribution license through resellers, which does not include distribution supplies as listed in paragraph 11 and others engaged in substantially the same business or

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HELD IN EVIDENCE AGREEMENT PAGE 10

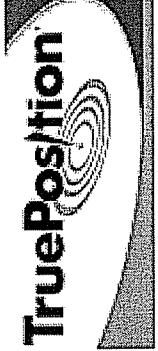
granted to end users shall be consistent with the terms of this paragraph. TruePosition represents that the patents and patent applications listed in Exhibit B hereto include all of its patents and patent applications except for the 1,44 and 410 patents identified in paragraph 8 below and their foreign counterparts. The license granted by this paragraph does not extend to patents

"handset replacement" is a two-way voice communication device. Geolocation patents do not include (i) patents specifically directed to applications relating to the subsequent use of the determined location data for E-911 purposes; or (ii) patents specifically directed to wireless telephone functionality and not specifically directed to the generation of the latitude and longitude of wireless telephone....

8) TruePosition hereby covenants not to sue Andrew for infringement of U.S. Patents 5,327,144 ("the 144 patent") and 5,608,410 ("the 410 patent") for domestic applications by Andrew relating solely to tasking E-911 geolocation (i.e., determining the latitude and

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TPOSESS



AnyPhone AnyWhere™
WIRELESS LOCATION TECHNOLOGY

REDACTED SECTION INTEGRITY AGREEMENT

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longitude of wireless telephones from which a 1-911" call has been placed, so long as said applications do not enable the permit location to be performed for any task other than E911.

9) TruePosition hereby covenants not to sue Andrew for infringement of any patents whatsoever, except as is set forth in the following sentence, for Andrew's manufacture, use, offer for sale or sale of Andrew's existing wireless network overlay "Geometrics" geolocation system.

This covenant does not apply to persons/organizations may inquire by way of business combination or merger or a corporate acquire does a bad mark (i.e. after October 1, 2005 provided that in the event of any such acquisition of a patent after October 1, 2005, TruePosition shall not

a) For purposes of the covenant not to sue set forth in this paragraph, "Andrew's existing wireless network overlay 'Geometrics' geolocation system" refers to the wireless telephone location equipment sold by Allen Telecom, Inc. and Andrew Corporation between July 2001 and January 2004, and means Andrew's wireless telephone location equipment (i.e. TDOA-2, TDOA-4, and AOA Wireless Location



AnyPhone AnyWhere
WIRELESS LOCATION TECHNOLOGY
TruePosition Settlement Agreement

TruePosition, Inc. 10000 Research Parkway, Suite 100, Minneapolis, MN 55438

21) All notices under this Settlement Agreement shall be in writing and shall be

delivered to James B. Koenig, Esq., 10000 Research Parkway, Suite 100, Minneapolis, MN 55438, or to such other address as the parties shall determine by written notice. Delivery of notices by facsimile or electronic mail shall be deemed to have been made when the notices are received by the addressee.

Notices by U.S.

To TruePosition and KST:

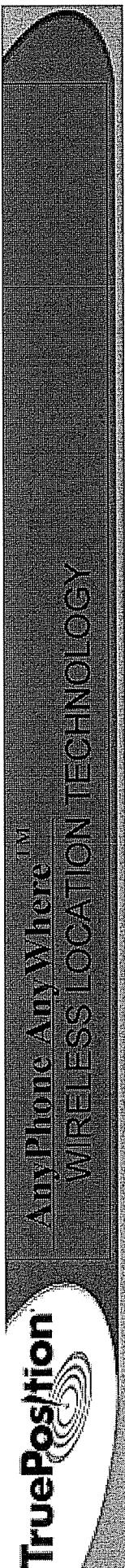
Fernando Beccy
Senior Vice President and General Counsel
TruePosition, Inc.
10000 Research Parkway
Minneapolis, MN 55438
Fax: (612) 891-1011

22) The parties agree that no promise, representation or agreement not herein expressed has been made, and this Settlement Agreement (including the Exhibits hereto) contains the entire agreement between the parties with respect to its subject matter, superseding all other prior agreements, written or oral, including without limitation the term sheet dated January 16, 2004.

14.

PROPOSED

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TruePosition, Inc. v. American Corp.
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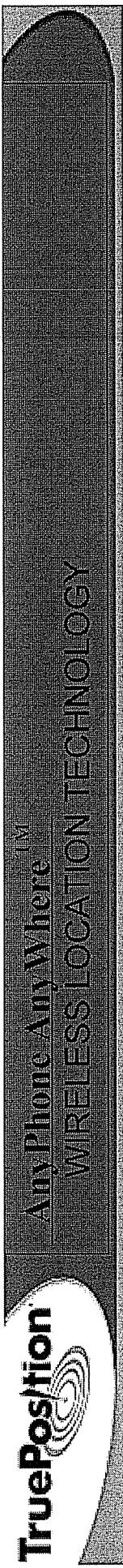
ETSI TS 143 059 v6.4.0 (2004-11)

Technical Specification

Digital cellular telecommunications system (Phase 2+);
Functional stage 2 description of
Location Services (LCS) in GERAN
(3GPP TS 43.059 version 6.4.0 Release 6)



PTX 400



Release 6 11 3GPP TS 43.059 V6.3.0 (2004-04)

4.2 Standard LCS Methods

4.2.1 Timing Advance

The TA is based on the existing Timing Advance (TA) parameter. The TA value is known for the serving BTS. To obtain TA values in case the MS is in idle mode a special procedure, not noticed by the GSN subscriber (no ringing tone), is set up. The cell ID of the serving cell and the TA is returned as the result of the TA.

TA may be used to assist all positioning mechanisms.

4.2.2 Enhanced Observed Time Difference (E-OTD) positioning mechanism

The E-OTD method is based on measurements in the MS of the Enhanced Observed Time Difference of arrival of burst of nearby pairs of BTSs. For E-OTD measurement synchronization, normal and dummy bursts are used. When the transmission frames of BTSs are not synchronized, the network needs to measure the Real or Absolute Time Differences (RTD or ATD) between them. To obtain accurate synchronization, E-OTD measurements and, for non-synchronized BTSs, RTD or ATD measurements are needed for at least three distinct pairs of geographically dispersed BTSs. Based on the measured E-OTD values the location of MS can be calculated either in the network or in the MS itself, if all the needed information is available in MS.

4.2.3 Global Positioning System (GPS) positioning mechanism

The Global Positioning System (GPS) method refers to any of several variants that make use of GPS signals or additional signals derived from GPS signals in order to calculate MS position. These variants give rise to a range of optional information flows between the MS and the network. One dimension of variation is whether position calculation is performed at a) MS-based PCF or b) network-based PCF. Another distinction is whether "assistance data" is required for the respective of where position calculation is performed. Examples of assistance data include off-tail GPS data, lists of satellites in view based on approximate MS position, etc. A third dimension of variation is closely related to the preceding, namely the origin and distribution of any assistance data. For example, even while assistance data may be required of a GPS method, it may be optional that the assistance data originates from and is distributed within and by the PLMN, VLR/MN, etc.

4.2.4 Uplink Time Difference of Arrival (U-TDOA) positioning mechanism

The U-TDOA positioning method is based on network measurements of the Time Of Arrival (TOA) of a known signal sent from the mobile and received at three or more LMUs. The known signal is the normal burst generated by a mobile while in the defined mode, either on the SDCCH or TCH. The method requires LMUs in the geographical vicinity of the mobile to be partitioned to accurately measure the TOA of the bursts. Since the geographical coordinates of the measurement units are known, one mobile position can be calculated via a hyperbolic triangulation. This method will work with existing mobiles without any modification.

5 GERAN LCS Architecture

Figure 1 shows the general arrangement of the Location Service feature. This illustrates, generally, the relation of LCS Clients and servers in the core network with the GERAN. The definition and operation of LCS entities operating in the core network is outside the scope of the present document. The LCS entities within the GERAN communicate with the Core Network (CN) across the A, Gb and Iu interfaces.

Communication among the GERAN LCS entities makes use of the messaging and signalling capabilities of the GERAN.

As part of their service or operation, the LCS Clients may request the location information of Mobile Station. There may be more than one LCS client. These may be associated with the core network, associated with the GERAN, operated as part of a MS application or accessed by the MS through its access to an application (e.g. through the Internet).



REF ID: PAGE 11

3GPP TR 46.050 (2004-04)

4.2.1 Timing Advance methods

NOT COVERED

For TR 46.050 the existing Timing Advance (TA) reference, 6c-TR, which is relevant for the wireless PTS. To obtain TA values, we use the TA in idle mode, a special procedure not covered by 3GPP TR 46.050 (see reference to 3GPP TR 46.050 (2004-04)).

4.2.2 Enhanced Observed Time Difference (E-OTD) positioning mechanism

NOT COVERED

Calculated TA (Time Difference of Arrival) is determined by the difference between the time of arrival of the signal from the serving cell and the time of arrival of the signal from the cell that has the smallest TA value. To obtain TA values, we use the TA in idle mode, a special procedure not covered by 3GPP TR 46.050 (see reference to 3GPP TR 46.050 (2004-04)).

4.2.3 Global Positioning System (GPS) positioning mechanism

NOT COVERED

Positioning is performed by the mobile using GPS signals. The GPS signal is received by the mobile and the signal is processed to determine the mobile's position. The mobile then sends the position information to the network. The network then uses this information to calculate the mobile's position.

4.2.4 Uplink Time Difference of Arrival (U-TDOA) positioning mechanism

The U-TDOA positioning method is based on network measurements of the Time Of Arrival (TOA) of a known signal sent from the mobile and received at three or more LMUs. The known signal is the normal bursts generated by a mobile while in the dedicated mode; either on the SDCCH or TCH. The method requires LMUs in the geographic vicinity of the mobile to be positioned to accurately measure the TOA of the bursts. Since the geographical coordinates of the measurement units are known, the mobile position can be calculated via hyperbolic trilateration. This method will work with existing mobiles without any modification.

**SDCCH
COVERED**

3GPP TR 46.050 (2004-04) specifies the U-TDOA positioning method. The U-TDOA positioning method is based on network measurements of the Time Of Arrival (TOA) of a known signal sent from the mobile and received at three or more LMUs. The known signal is the normal bursts generated by a mobile while in the dedicated mode; either on the SDCCH or TCH. The method requires LMUs in the geographic vicinity of the mobile to be positioned to accurately measure the TOA of the bursts. Since the geographical coordinates of the measurement units are known, the mobile position can be calculated via hyperbolic trilateration. This method will work with existing mobiles without any modification.

**TCH
NOT
COVERED**